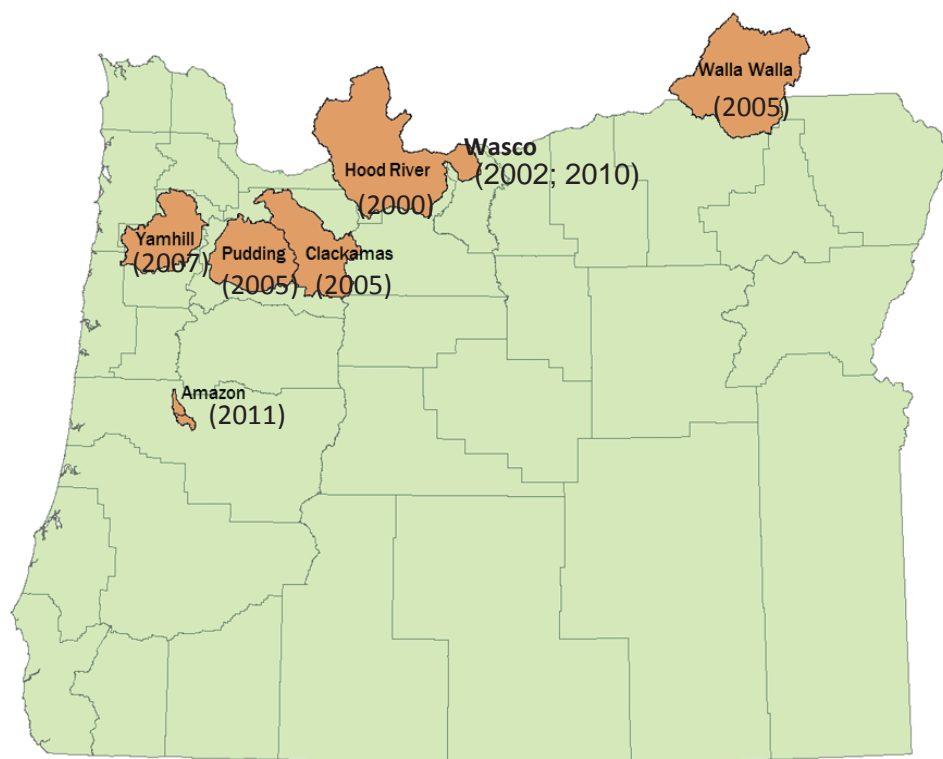


Oregon Pesticide Stewardship Partnership Monitoring – 2012

Kevin Masterson, OR Dept of Environmental Quality
Steve Riley, OR Dept of Agriculture

Oregon Pesticide Stewardship Partnerships

Current Watershed Projects



Note: The year in parentheses indicates the starting date(s) for the projects

Current Land Use Focus

Largely Agriculture:

- Walla Walla
- Wasco
- Hood River
- Pudding

Mixed Use (ag, urban, forestry, rights-of-way)

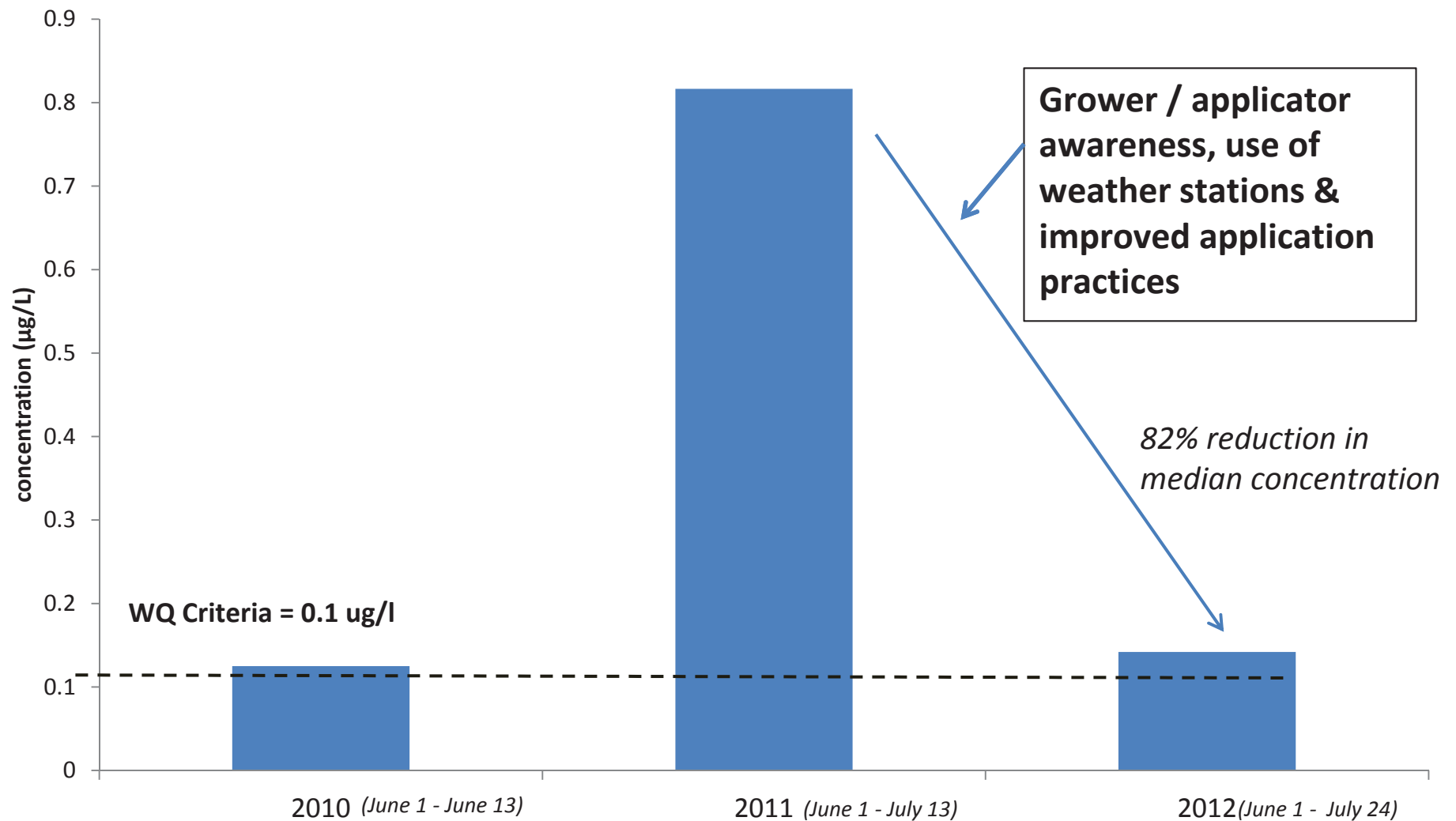
- Clackamas
- Yamhill
 - Central sub-basin
 - South Yamhill
- Amazon

Notable 2012 PSP Accomplishments

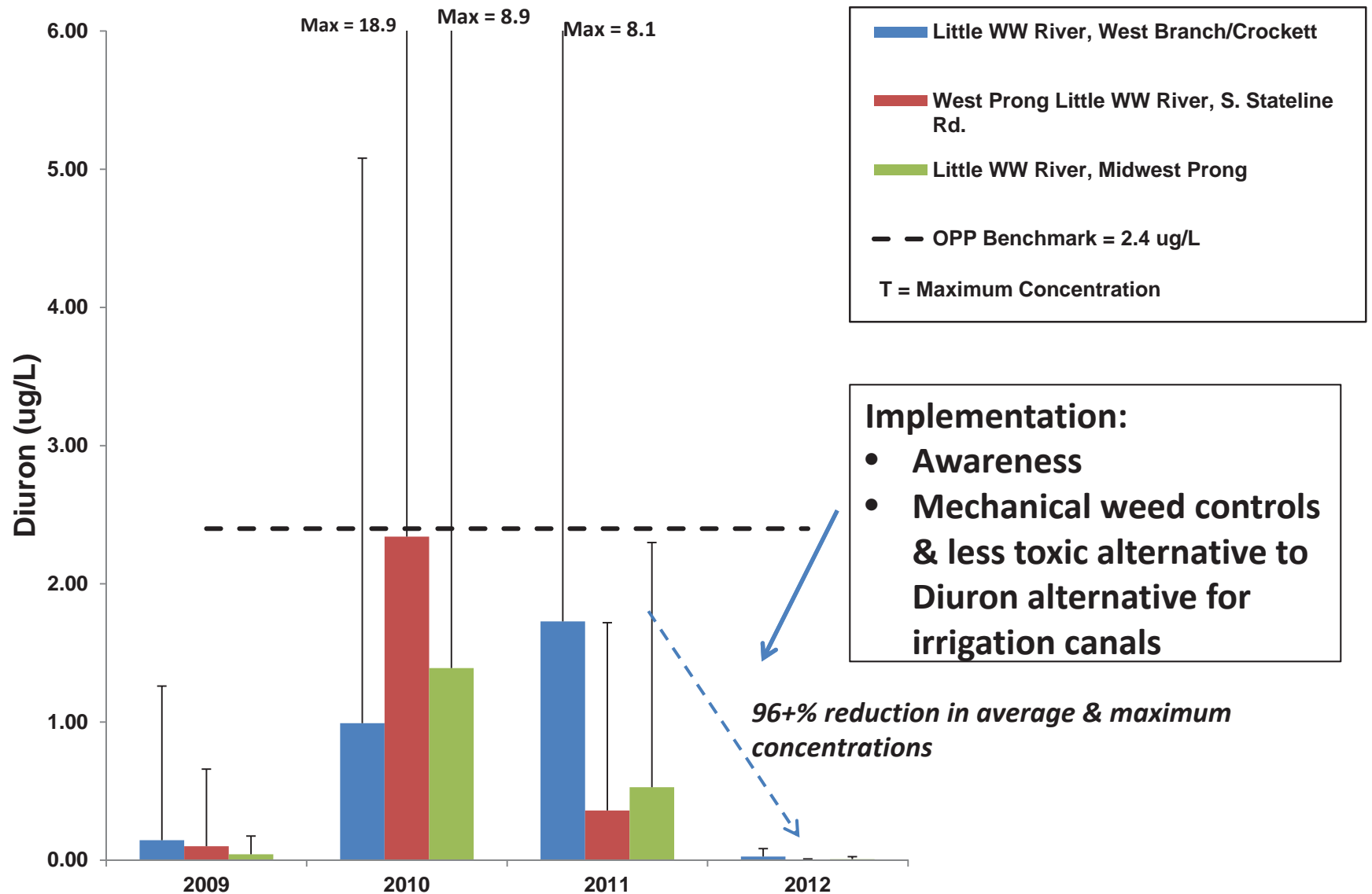
Walla Walla and Wasco Watersheds

Malathion in Wasco Watersheds 2010-2012

Median Concentration of Detections (all sites)



Diuron in the Walla Walla Watershed 2009-2012 Average and Maximum Concentrations



2012 Oregon Pesticide Monitoring

Other Notable Findings

- Chlorpyrifos still detected at one location in most PSP watersheds
- Diuron, Atrazine, Simazine, Sulfometuron-methyl → most frequently detected herbicides
- Detection limits for 2,4-D & triclopyr lowered in 2012, and detected often in urban/mixed areas
- Relatively few benchmark/standard exceedances
 - At least one exceedance for: chlorpyrifos, malathion, diuron, diazinon, chlorothalonil, bifenthrin, esfenvalerate, linuron, metolachlor
 - First year pyrethroid exceedances were recorded

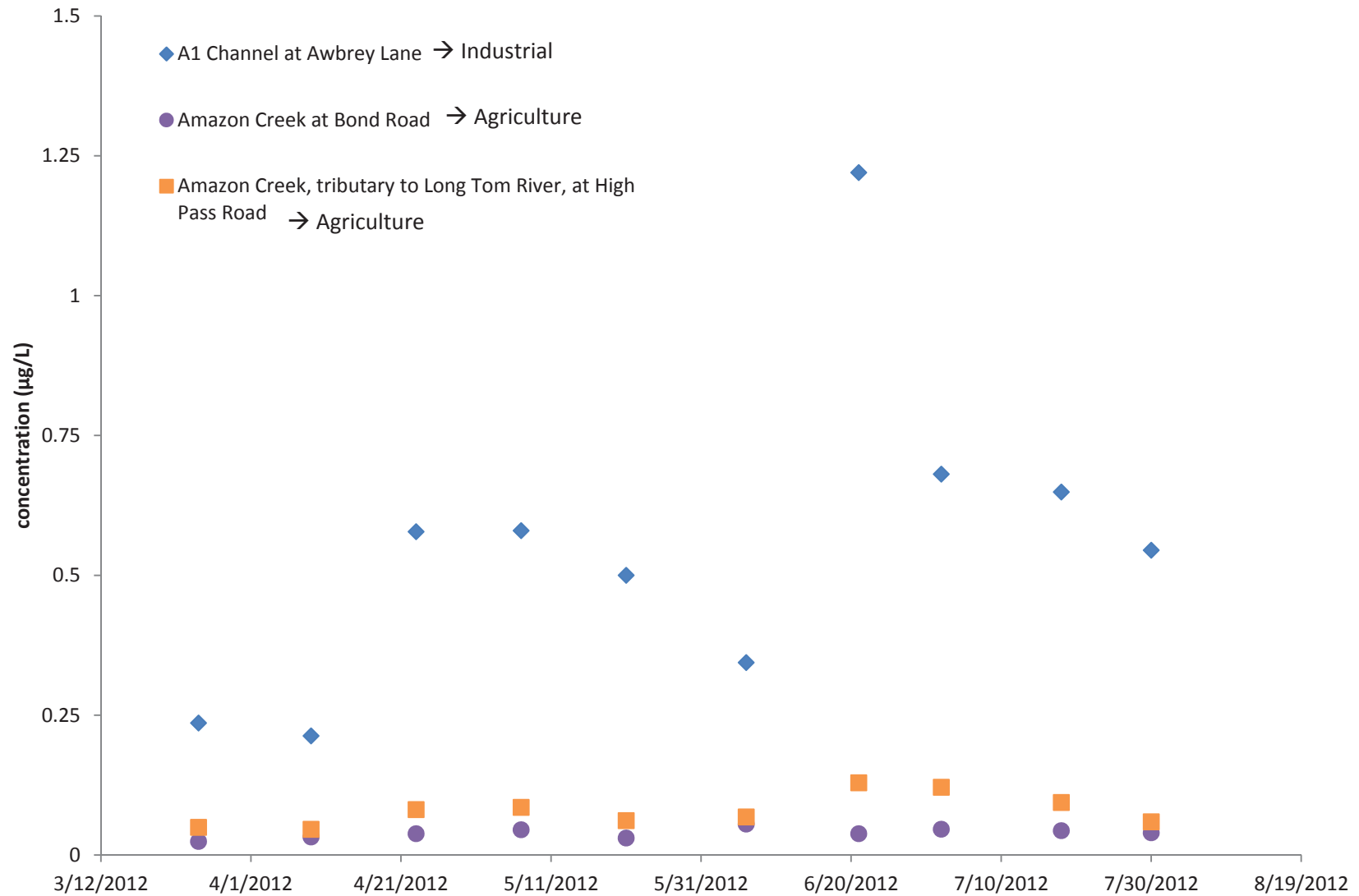
Spring 2012 PSP Data: Clackamas Sub-Basin - Mixed Land Use

Pesticide	Number of Detects	Streams Detected
2,4-D	8	Sieben/Rock
Atrazine	3	Sieben/Rock
Desisopropylatrztine	23	All
Bifenthrin	2	Noyer
Carbaryl	3	Sieben/Rock
Chlorpyrifos	1	Noyer
DEET	23	All
Diruon	22	All
Endosulfan II and Endosulfan Sulfate	4	Noyer
Fluoridone	1	Noyer
Hexazinone	5	NF Deep (most)

Spring 2012 PSP Data: Clackamas Sub-Basin, con't

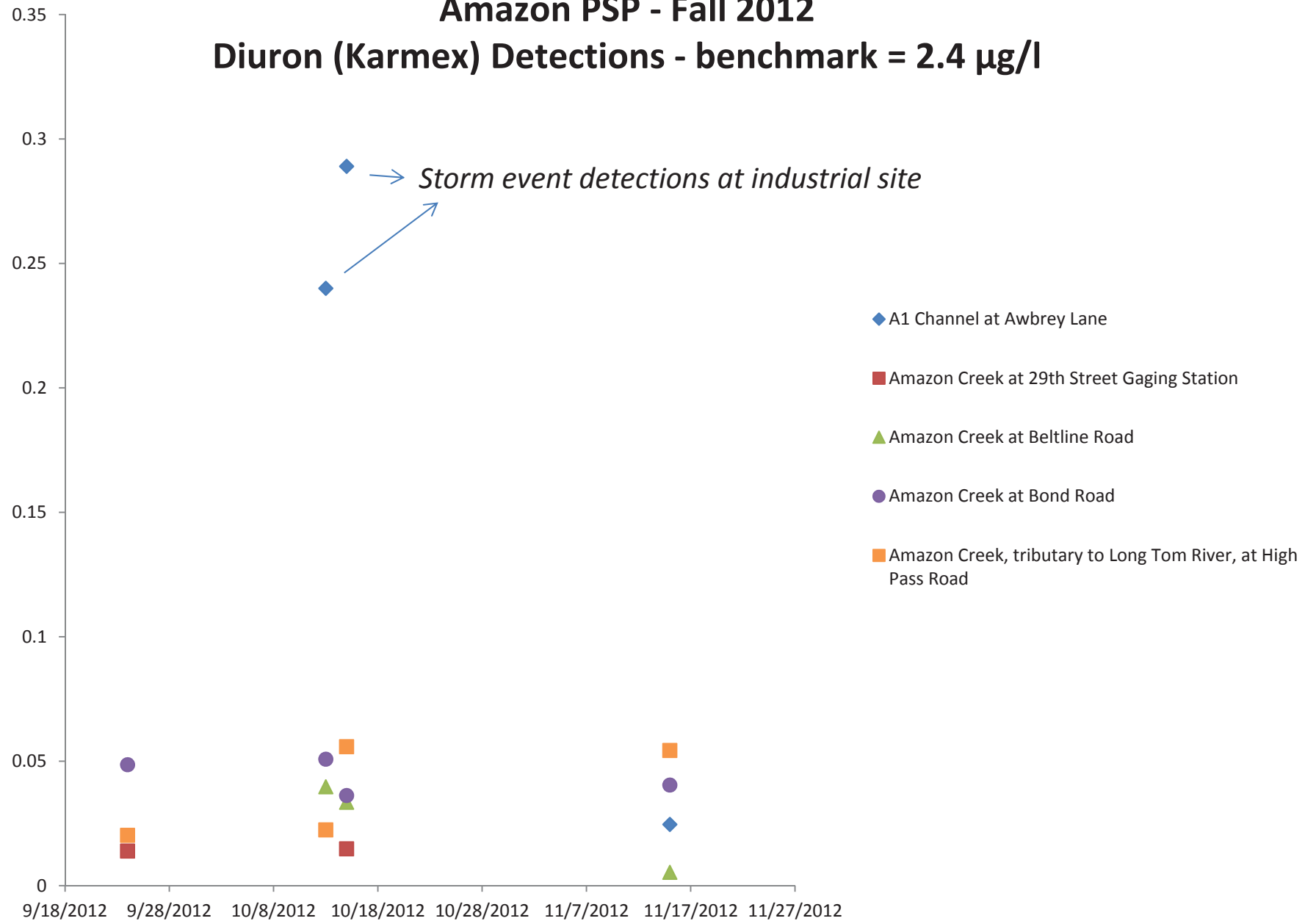
Pesticide	Number of Detects	Where Found?
Imidacloprid	2	Sieben/Noyer
Metolachlor	5	NF Deep
Napropamide	3	NF Deep/Noyer
Norflurazon	1	NF Deep
Pendamethalin	8	Noyer
Prometon	4	Rock
Pyraclostrobin	6	Noyer
Simazine	27	All
Sulfometuron-methyl	10	All
Tebuthiuron	6	Noyer/NF Deep
Trifluralin	8	Noyer/NF Deep

**Propiconazole (Tilt, Orbit) Concentrations
Spring 2012
Aquatic Life Benchmark = 21 µg/L**



Amazon PSP - Fall 2012

Diuron (Karmex) Detections - benchmark = 2.4 µg/l



Pesticides Commonly Detected at Urban PSP Monitoring Locations

- **Herbicides**

- Diuron (Karmex)
- 2,4-D
- Triclopyr (Garlon)
- Sulfometuron-methyl (Oust)
- Simazine (Princep)
- Atrazine & degradates

- **Insecticides**

- Carbaryl (Sevin)
- Imidacloprid (Admire)
- Prometon (Pramitol)
- DEET

- **Fungicides**

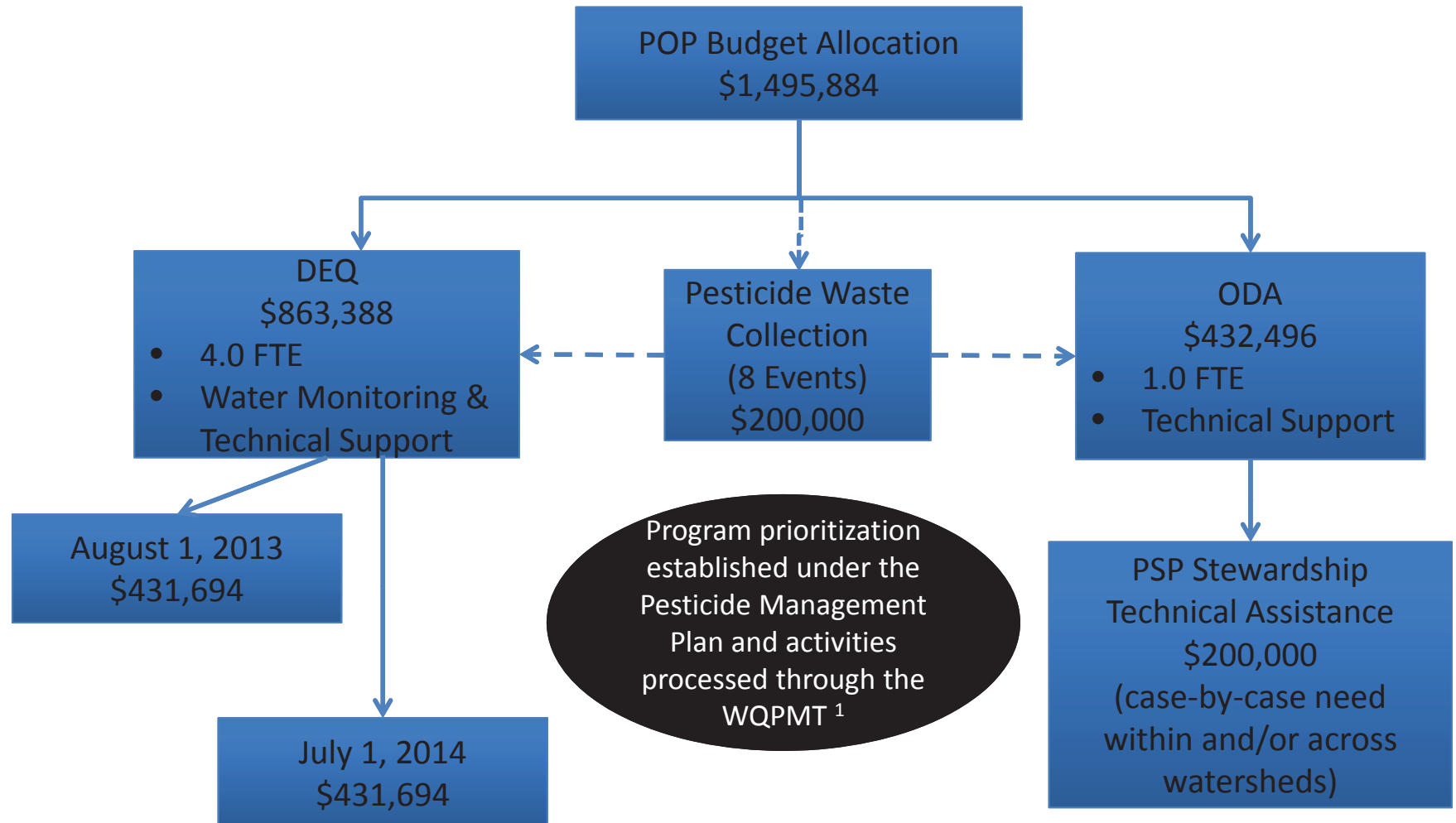
- Propiconazole (Tilt)

* *Caveats*

- *DEQ's lab analytical suite is skewed more to ag pesticides & more herbicides*
- *Some pesticides partition to stream sediments rather than water column*

DRAFT

PSP Proposed Allocation – Legislative Appropriation 2013 – 2015 Biennium



1. WQPMT: the interagency Water Quality Pesticide Management Team

Plans for Enhancing Oregon Pesticide Stewardship Partnerships

- Restore monitoring sites in existing watersheds (some dropped due to budget)
- Expand to two (2) new watersheds within the next biennium
- Add groundwater and sediment monitoring locations in existing and new PSP watersheds
- Finalize program “operating principles”, including communication of pesticide data
 - External advisory group likely to meet periodically
- Formalize role of Inter-Agency Team in guiding PSP decision-making and work plans